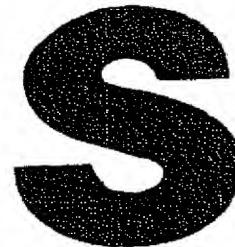


Analysis report**ENZ16254****Spectral Service**

Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50986 Köln

Enzymotec Ltd.

Mr. Gai Ben-Dror

Hataasia 5 st.

Migdal HaEmeq 23106

Israel

Stabilized PS dispersion capsules
(capsules: 767,14 mg, 759,43 mg, 765,05 mg, 760,19 mg)

Phone: +49(0)2236/96947-0
Fax: +49(0)2236/96947-11
eMail: Info@spectralservice.de
http: //www.spectralservice.de

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

T = 0

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate	Content [%]: 99,9	MW [g/mol]: 326,29
Initial weight test item [mg]: 3051,81	Initial weight Internal standard [mg]: 65,36	

Sample Ident.: PS20D NF #26/5K 096628, Ch.-B.: #0505 Lab. No:
1123

Spectral Service Code: ENZ16254

Results from: 26.08.2005

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	---	---	770,0
1-LPC	---	---	515,0
2-LPC	---	---	515,0
PI	0,27	1,60	835,0
LPI	---	---	570,0
PS	14,05	87,77	797,2
LPS	0,19	1,84	517,0
SPH	---	---	770,0
PE	0,42	2,86	725,0
LPE	---	---	470,0
APE	0,57	2,84	990,0
PG	---	---	758,0
DPG	0,29	2,15	682,5
PA	---	---	685,0
LPA	---	---	430,0
Other	0,15	0,94	770,0
Sum	15,93	100,00	
Phosphorus	0,62		

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

Cologne, 26. August 2005

Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

Analysis report
ENZ16672-1

Spectral Service



Laboratorium

für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50986 Köln

Enzymotec Ltd.

Mr. Gai Ben-Dror

Hataasia 5 st.

Migdal HaEmeq 23106

Israel

Ambient Con.

Phone: +49/(0)2236/96947-0
Fax: +49/(0)2236/96947-11
eMail: Info@spectralservice.de
http://www.spectralservice.de

(capsules: 788,32 mg, 764,59 mg, 765,33 mg, 773,35 mg)

Stabilized PS dispersion capsules

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

25 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 3091,59 *2,5* Initial weight Internal standard [mg]: 61,43

Sample Ident.: NF 096628 - RT/3 months

Lab. No.:

Spectral Service Code: ENZ16672-1

Results from: 08.11.2005

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	---	---	770,0
1-LPC	---	---	515,0
2-LPC	---	---	515,0
PI	0,24	1,41	835,0
LPI	---	---	570,0
PS	13,52	82,08	797,2
LPS	0,07	0,65	517,0
SPH	---	---	770,0
PE	0,16	1,05	725,0
LPE	---	---	470,0
APE	0,29	1,44	990,0
PG	---	---	758,0
DPG	0,17	1,18	682,5
PA	1,57	11,10	685,0
LPA	0,02	0,26	430,0
Other	0,13	0,83	770,0
Sum	16,18	100,00	
Phosphorus	0,64		

* = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

Cologne, 8. November 2005

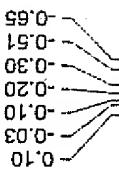
Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040



80
70
60
50
40
30
20
10
0

Luftdruckspannung Gradien

Current Data Parameters
NAME ENZ16672
EXPCNO 10
PROCNO 1

F2 - Acquisition Parameters
Date 2025/11/08
Time 12:35
INSTRUM spect
PROBHD 5 mm EBI 1H-8B
PULPROG zpm450
TD 32768
SOLVENT CDCl3
NS 128
DS 4
SW1 5555.204 Hz
FIDRES 0.028569 Hz
AQ 2.7325011 sec
RG 20512.5
DW 15400 usec
DE 6.00 usec
TE 0.0 K
D1 10.000000 sec
f1 0.01000000 sec
tdcest 0.0000000 sec
MCPIPK 0.01500000 sec

===== CHANNEL 1 =====

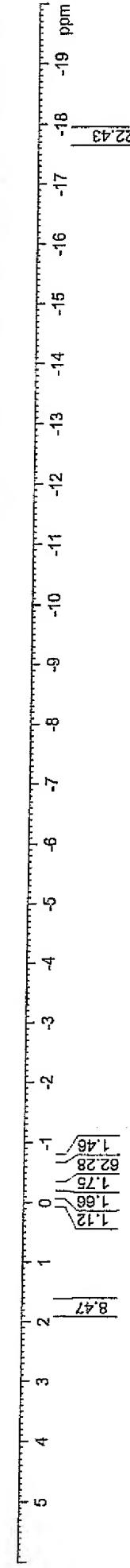
NUC1 31P
PL1 9.20 usec
PL1 0.00 dB
SF01 121.456546 MHz

===== CHANNEL 12 =====

CPDPG2 1H-16
NUC2 1H
PL2 10.00 usec
PL2 6.00 dB
PL2 25.55 dB
SF02 300.131306 kHz

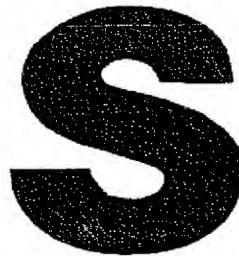
F2 - Processing Parameters

SF 121.456534 kHz
WDW FID
SSB 0
LB 0.51 Hz
GB 0
PC 140



Analysis report

ENZ18342-2

Spectral Service

Laboratorium

für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50988 Köln

Enzymotec Ltd.

Mrs. Neta Scheinman
Hataasia 5 st.
Migdal HaEmeq 23106
Israel

Ambient Con.

Phone: +49/(0)2236/96947-0
Fax: +49/(0)2236/96947-11
eMail: Info@spectralservice.de
http://www.spectralservice.de

Stabilized 15 dispersion capsules
[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

12 months

Internal standard: Triphenyl phosphate	Content [%]: 99,7	MW [g/mol]: 326,29
Initial weight test item [mg]: 1556,17	Initial weight Internal standard [mg]: 20,35	

Sample Ident.: Sample 29 - RT - 20/08/06

Lab. No:

Spectral Service Code: ENZ18342-2

Results from: 23.08.2006

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	--*)	--*)	770,0
1-LPC	--*)	--*)	515,0
2-LPC	--*)	--*)	515,0
PI	0,23	1,27	835,0
LPI	--*)	--*)	570,0
PS**	13,61	79,69	797,2
LPS	0,16	1,47	517,0
SPH	--*)	--*)	770,0
PE	--*)	--*)	725,0
LPE	--*)	--*)	470,0
APE	0,33	1,54	990,0
PG	--*)	--*)	758,0
DPG	0,28	1,93	682,5
PA	1,57	10,68	685,0
LPA	0,06	0,62	430,0
Other	0,46	2,80	770,0
Sum	16,70	100,00	
Phosphorus	0,66		

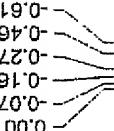
*) = not observed, no signal assignment or < 0,01%

Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

** calculated for the Na-salt

Cologne, 23. August 2006

*Tu M*Thorsten Buchen
(Food chemist)Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 KölnGeschäftsführer:
Dr. Bernd Diehl
Dr. Werner OckelsGesellschaftssitz:
Köln HRB 20416
Gerichtsstand KölnDresdner Bank Brühl
Konto 3 888 198
BLZ 37080040



1.19
2.24
0.00
-0.07
-0.16
-0.27
-0.46
-0.61

15.87
13.11
12.51
11.64
9.09
68.89
1.95
1.25
1.13
1.04

-17.78
-17.70
-17.62

Current Data Parameters

NAME ENZ 18342
EXPTC 20
PROTCNO 1

F2 - Acquisition Parameters

Date 20060822
Time 15:35
INSTRUMEN stored
PROBHD 5 mm PGR-1H-5B
PULPROG 32768
TD 32768
SOLVENT CDCl3
NS 128
DS 4
SWH 55.5204 Hz
FIDRES 0.132953 Hz
AQ 2.705311 sec
PG 204.125
DW 33.400 usec
DE 0.00 usec
TE 0.01 sec
D1 10.3000000 usec
d11 0.0700000 usec
NOESTE 0.0300000 sec
NEWARK 0.0150000 sec

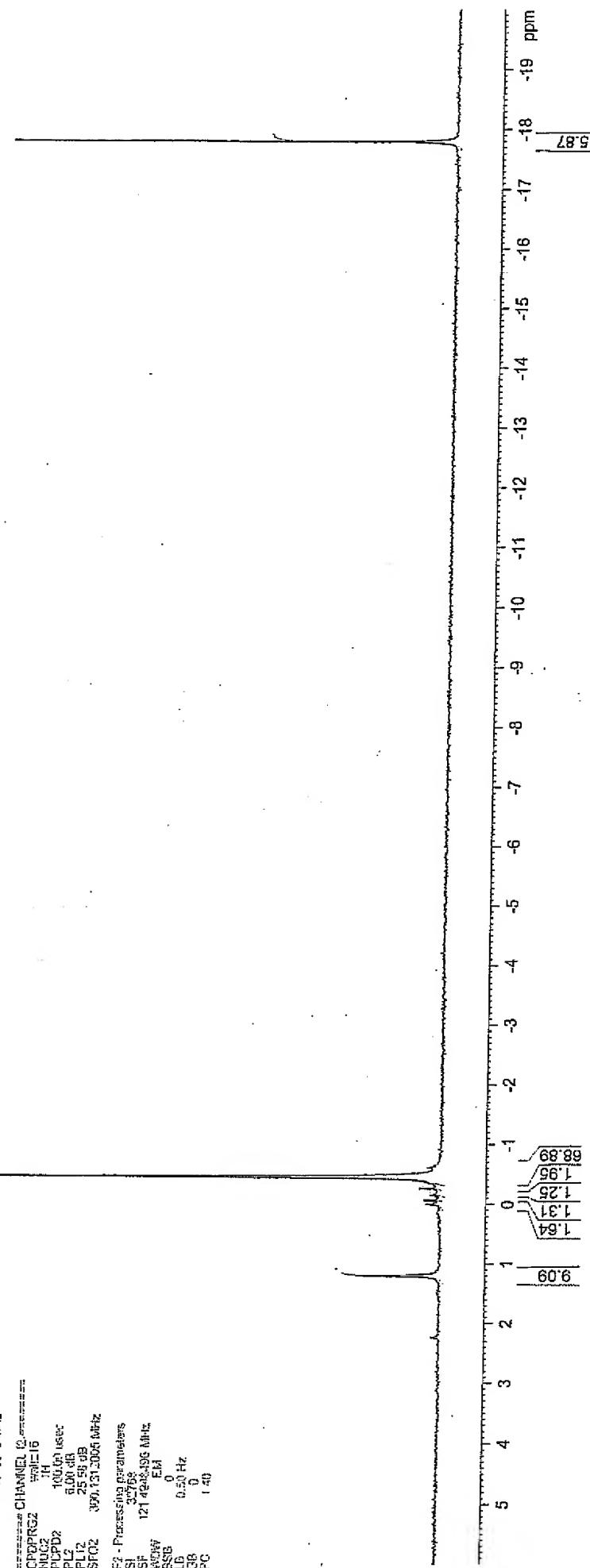
NUCL SIF
PL1 9.20 usec
SFO1 121.5042306 MHz

CHANNEL 12

CPDPRG2 1H
NUCL 1H
PLCPD2 100.00 usec
PL2 6.00 dB
PL12 25.56 dB
SFO2 390.1312006 MHz

F2 - Processing parameters

SI 32768
SF 121.5042306 MHz
WDW EM
SSG 0
LB 0.20 Hz
SB 0
PC 140



*** Current Data Parameters ***

ENZ 18342-2

NAME : ENZ18342
 EXPNO : 20
 PROCNO : 1

*** Acquisition Parameters ***

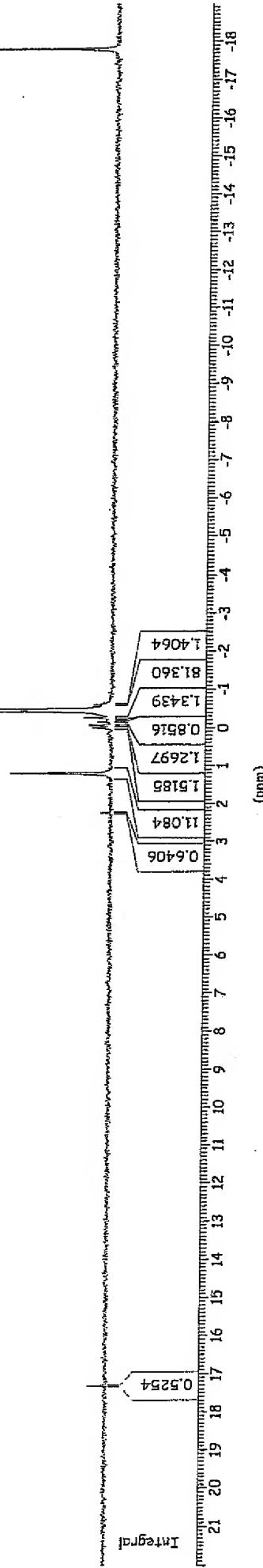
D[1] : 10.000000 sec
 NS : 128
 C1 : -1.44 Hz
 P1[1] : 9.2 usec
 PROBHD : 5 mm BBI 1H-BB Z-GRD
 PULPROG : zgig30
 SW : 49.3453 ppm
 SW_h : 5995.204 Hz
 TD : 32768

*** Processing Parameters ***

GB : 0.0000000
 LB : 0.50 Hz
 SF : 121.4948496 MHz

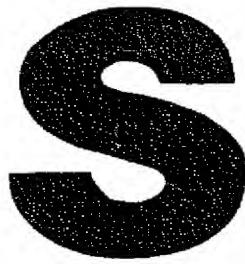
*** 1D NMR Plot Parameters ***

YScale : 90.94 %
 Hz_cm : 180.68
 AQ_time : 2.7328510 sec



Analysis report
ENZ19292-2

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50996 Köln

Enzymotec Ltd.

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Israel

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Fax: +49/(0)2236/96947-11
eMail: Info@spectralservice.de
http: /www.spectralservice.de

Ambient Con.

stabilized PS dispersion capsules

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

17 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1565,65

Initial weight Internal standard [mg]: 20,43

Sample Ident.: Sample 29 (RT)

Lab. No:

Spectral Service Code: ENZ19292-2

Results from: 29.01.2007

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	---*)	---*)	770,0
1-LPC	---*)	---*)	515,0
2-LPC	---*)	---*)	515,0
PI	---*)	---*)	835,0
LPI	---*)	---*)	570,0
PS**	13,63	81,57	797,2
LPS	0,13	1,22	517,0
SPH	---*)	---*)	770,0
PE	---*)	---*)	725,0
LPE	---*)	---*)	470,0
APE	0,30	1,43	990,0
PG	---*)	---*)	758,0
DPG	0,25	1,72	682,5
PA	1,47	10,26	685,0
LPA	0,06	0,62	430,0
Other	0,51	3,18	770,0
Sum	16,35	100,00	
Phosphorus	0,65		

*) = not observed, no signal assignment or < 0,01%

Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

** calculated for the Na-salt

Cologne, 29. January 2007

T. M. R.
Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

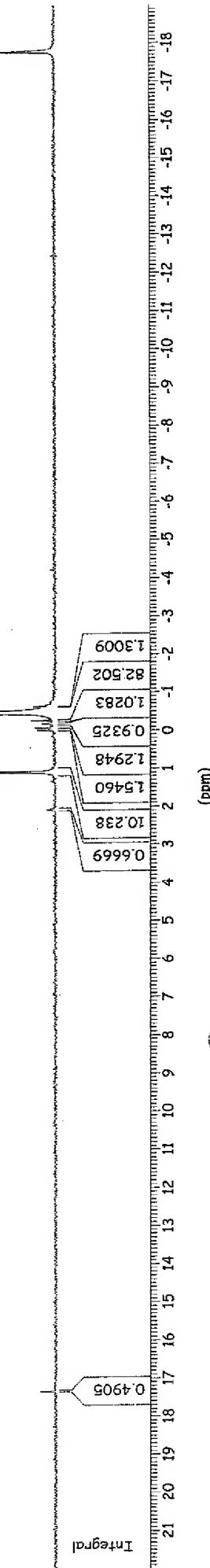
Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

*** Current Data Parameters ***

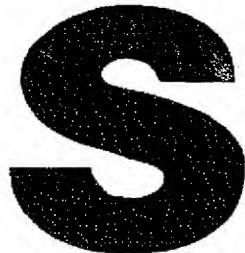
ENZ19292:2

NAME : ENZ19292
 EXPNO : 20
 PROCNO : 1
 *** Acquisition Parameters ***
 D[1] : 10.000000 sec
 NS : 192
 O1 : -1.44 Hz
 P[1] : 9.2 usec
 PROBHD : 5 mm BB1H-BB2GRD
 PULPROG : zgig30
 SW : 49.3453 ppm
 SW_h : 5995.204 Hz
 TD : 65536
 *** Processing Parameters ***
 G_B : 0.000000
 L_B : 0.50 Hz
 SF : 121.4948486 MHz
 *** 1D NMR Plot Parameters ***
 YScale : 102.46 %
 Hz_cm : 180.68
 AQ_time : 5.4657020 sec



Analysis report
ENZ20680-2

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50986 Köln

Enzymotec Ltd.

Mrs. Neta Scheinman
Hataasia 5 st.
Migdal HaEmeq 23106
Israel

Ambient Con

Phone: +49/(0)2236/96947-0
Fax: +49/(0)2236/96947-11
eMail: Info@spectralservice.de
http://www.spectralservice.de

stabilized PS dispersion capsules

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

24 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1537,82

Initial weight Internal standard [mg]: 10,12

Sample Ident.: 76-29 - ~~RT~~ RT *measured*

Lab. No:

Spectral Service Code: ENZ20680-2

Results from: 06.09.2007

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	---	---	770,0
1-LPC	---	---	515,0
2-LPC	---	---	515,0
PI	0,25	1,42	835,0
LPI	---	---	570,0
PS**	13,96	83,74	797,2
LPS	0,08	0,71	517,0
SPH	---	---	770,0
PE	---	---	725,0
LPE	---	---	470,0
APE	0,27	1,33	990,0
PG	---	---	758,0
DPG	0,21	1,46	682,5
PA	1,24	8,65	685,0
LPA	0,09	1,02	430,0
Other	0,27	1,67	770,0
Sum	16,37	100,00	
Phosphorus	0,65		

*) = not observed, no signal assignment or < 0,01%

Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

** calculated for the Na-salt

Cologne, 6. September 2007

T. Buchen

Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

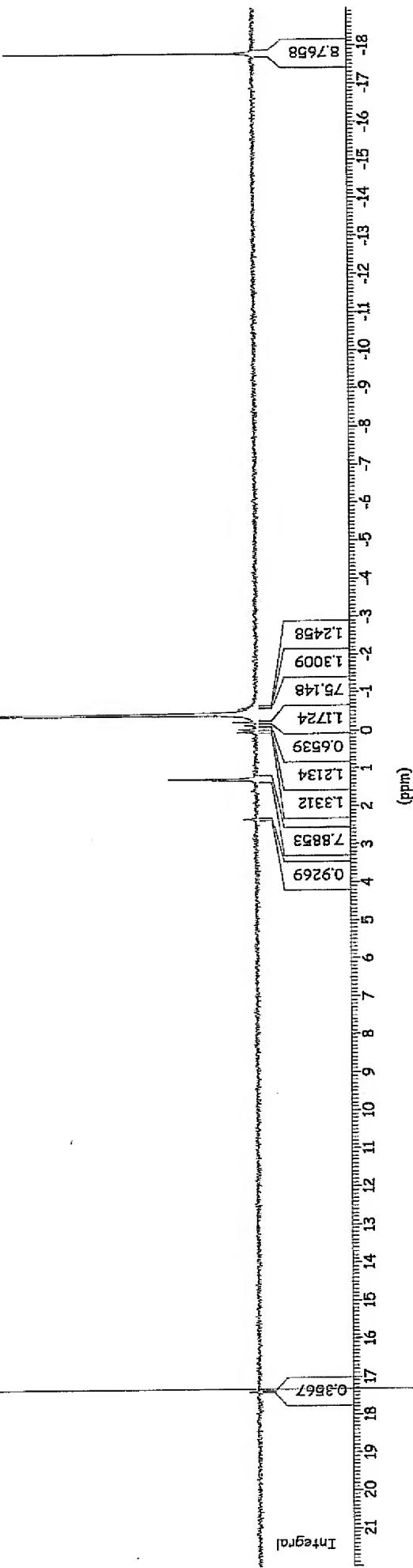
Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

*** Current Data Parameters ***

NAME : enz20680
 EXPNO : 20
 PROCNO : 1
 *** Acquisition Parameters ***
 D[1] : 10.000000 sec
 NS : 128
 O1 : -1.44 Hz
 P1 : 9.2 usec
 PROBHD : 15 mm BBI 1H-BB Z-GRD
 PULPROG : zg30
 SW : 49.3453 ppm
 SW_h : 5995.2204 Hz
 TD : 65536
 *** Processing Parameters ***
 GB : 0.000000
 LB : 0.50 Hz
 SF : 121.4948479 MHz
 *** 1D NMR Plot Parameters ***
 YScale : 102.14 %
 Hz_cm : 180.68
 AQ_time : 5.4657020 sec

ENZ20680-2 76-29 35deg



Analysis report

ENZ16672-2

Spectral Service

Spectral Service GmbH Post box 560122 D-50986 Köln

Laboratorium
für Auftragsanalytik GmbH

Enzymotec Ltd.

Mr. Gai Ben-Dror

Hataasia 5 st.

Migdal HaEmeq 23106

Israel

Stabilized PS dispersion capsules

(capsules: 761,89 mg, 780,48 mg, 776,05 mg, 776,46 mg)

Accelerated con.

Phone: +49/(0)2236/96947-0
Fax: +49/(0)2236/96947-11
eMail: Info@spectralservice.de
http://www.spectralservice.deAnalysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 3094,88

Initial weight Internal standard [mg]: 59,26

Sample Ident.: NF 096628 - 35 months

Lab. No:

Spectral Service Code: ENZ16672-2

Results from: 08.11.2005

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	---	---	770,0
1-LPC	---	---	515,0
2-LPC	---	---	515,0
PI	0,22	1,25	835,0
LPI	---	---	570,0
PS	13,46	81,95	797,2
LPS	0,09	0,82	517,0
SPH	---	---	770,0
PE	0,27	1,80	725,0
LPE	---	---	470,0
APE	0,30	1,48	990,0
PG	---	---	758,0
DPG	0,18	1,29	682,5
PA	1,46	10,38	685,0
LPA	0,04	0,48	430,0
Other	0,09	0,54	770,0
Sum	16,10	100,00	
Phosphorus	0,64		

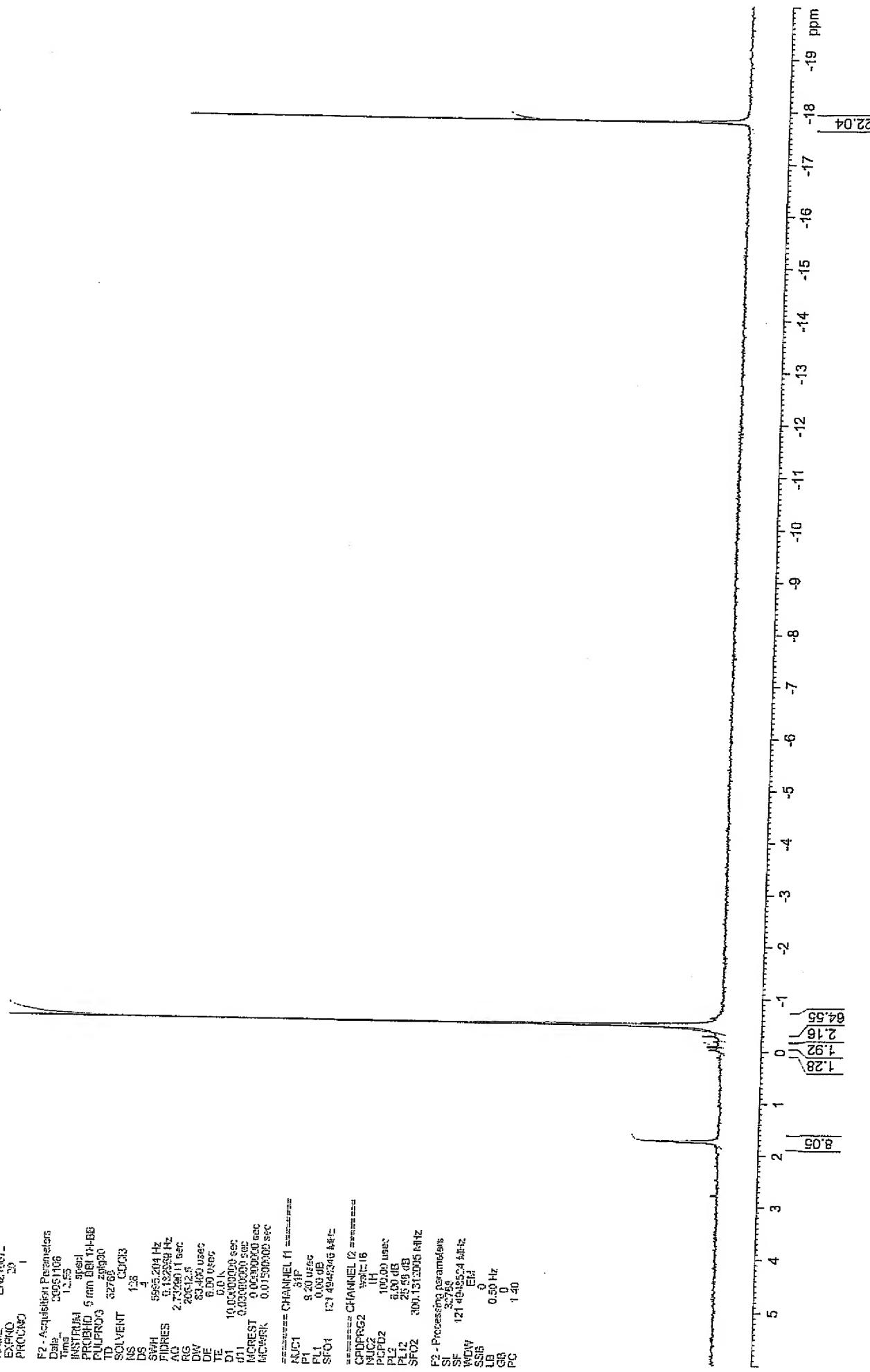
*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

Cologne, 8. November 2005

Thorsten Buchen
(Food chemist)Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 KölnGeschäftsführer:
Dr. Bernd Diehl
Dr. Werner OckelsGesellschaftssitz:
Köln HRB 20416
Gerichtsstand KölnDresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

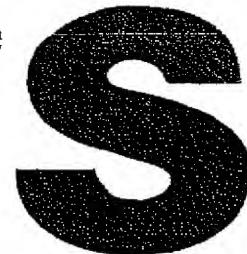
۱۷۳

-17.78 -17.80



Analysis report
ENZ18342-3

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH, Post box 580122 D-50986 Köln

Enzymotec Ltd.

Mrs. Neta Scheinman

Hataasia 5 st.

Migdal HaEmeq 23106
Israel

Accelerated Con.

Stabilized PS dispersion capsules

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

12 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1566,47 Initial weight Internal standard [mg]: 20,22

Sample Ident.: Sample 29 – 35°C - 20/08/06

Lab. No:

Spectral Service Code: ENZ18342-3

Results from: 23.08.2006

Phospholipid	Weight-%	Mol-%	MW [g/mol]
PC	---*)	---*)	770,0
1-LPC	---*)	---*)	515,0
2-LPC	---*)	---*)	515,0
PI	0,25	1,57	835,0
LPI	---*)	---*)	570,0
PS**	13,28	86,13	797,2
LPS	0,14	1,37	517,0
SPH	---*)	---*)	770,0
PE	---*)	---*)	725,0
LPE	---*)	---*)	470,0
APE	0,29	1,53	990,0
PG	---*)	---*)	758,0
DPG	0,23	1,76	682,5
PA	0,61	4,59	685,0
LPA	0,09	1,07	430,0
Other	0,30	1,99	770,0
Sum	15,19	100,00	
Phosphorus	0,60		

*) = not observed, no signal assignment or < 0,01%

Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

** calculated for the Na-salt

Cologne, 23. August 2006

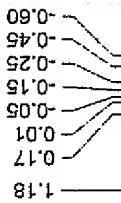
Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040



Current Data Parameters

Name: ENZ18342
EXPTC: 30
PROCNO: 1

F2 - Acquisition Parameters

Date: 20260222
Time: 16:25
INSTRUM: spect
PROBHD: 5 mm TBI-1H-6B
PULPROG: 32768.10
TD: 32768
SOLVENT: CDCl3
NS: 128
DS: 4
SWH: 5958.204 Hz
FIDRES: 0.12255 Hz
AQ: 2.732511 sec
RG: 2048.5
DW: 63.480 us
DE: 6.00 us
TE: 100.0 K
D1: 10.000000 sec
D2: 0.000000 sec
ACQTIME: 0.000000 sec
MCYORK: 0.000000 sec

F2 - CHANNEL 1

RQD1
P1
PL1
SFQ1

F2 - CHANNEL 2

RQD2
P2PD2
PL2
PLT2
SFQ2

F2 - Process parameters

SI: 32768
SF: 121.468335 kHz
WDW: FID
SSB: 0
LB: 0.50 Hz
GB: 0
PC: 1.40

Current Data Parameters

Name: ENZ18342
EXPTC: 30
PROCNO: 1

F2 - Acquisition Parameters

Date: 20260222
Time: 16:25
INSTRUM: spect
PROBHD: 5 mm TBI-1H-6B
PULPROG: 32768.10
TD: 32768
SOLVENT: CDCl3
NS: 128
DS: 4
SWH: 5958.204 Hz
FIDRES: 0.12255 Hz
AQ: 2.732511 sec
RG: 2048.5
DW: 63.480 us
DE: 6.00 us
TE: 100.0 K
D1: 10.000000 sec
D2: 0.000000 sec
ACQTIME: 0.000000 sec
MCYORK: 0.000000 sec

F2 - CHANNEL 1

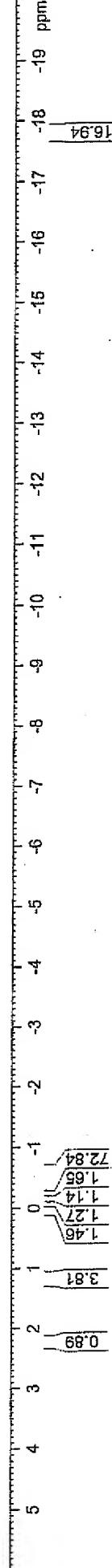
RQD1
P1
PL1
SFQ1

F2 - CHANNEL 2

RQD2
P2PD2
PL2
PLT2
SFQ2

F2 - Process parameters

SI: 32768
SF: 121.468335 kHz
WDW: FID
SSB: 0
LB: 0.50 Hz
GB: 0
PC: 1.40



*** Current Data Parameters ***

ENZ 18342-3

NAME : enz18342

EXPNO : 30

PROCNO : 1

*** Acquisition Parameters ***

D[1] : 10.000000 sec
 NS : 128
 O1 : -144 Hz
 P1 : 9.2 usec
 PROBHD : 5 mm BBI 1H-BB Z-GRD
 PULPROG : zg30
 SW : 49.3453 ppm
 SW_h : 5995.204 Hz
 TD : 32768
 *** Processing Parameters ***
 GB : 0.000000
 LB : 0.50 Hz
 SF : 121.494485 MHz
 *** 1D NMR Plot Parameters ***
 YScale : 99.31 %
 Hz_cmn : 180.68
 AQ_time : 2.7322510 sec

